

IN THE CLAIMS

1. (Currently Amended) A method for communicating to a sender an availability of receiving a new message in a plurality of buffers each having at least one slot for storing the new message comprising:

determining whether there is at least one slot available in each of the buffers for receiving the new message; and

providing a count for each of the buffers;

providing a credit signal to the sender only when all of the buffers have a count with a non-zero value; ~~at least one slot available for storing the new message~~

decrementing the count for each buffer in response to the credit signal being provided to the sender.

2. (Currently Amended) A method according to claim 1 further ~~comprising~~ comprising;

monitoring the buffers to determine whether at least one slot in each of the buffers is available for storing the new message.

3. (Currently Amended) A method according to claim 1 further ~~comprising~~ comprising:

identifying which of the buffers is to receive the new message;

inserting the new message into the identified buffers;

incrementing the ~~providing a count for each of the~~ those buffers that do not receive the new message.

4. (Currently Amended) A method for communicating to a sender an availability of receiving a new message in a plurality of buffers each having at least one slot for storing the new message comprising:

determining whether there is at least one slot available in each of the buffers for receiving the new message; and

providing a credit signal to the sender only when all of the buffers have at least one slot available for storing the new message;

providing a count for each of the buffers; A method according to claim 3 further comprising

decrementing each count when all of the buffers have at least one slot available for storing the new message.

5. (Original) A method according to claim 4 further comprising configuring at least one of the buffers to receive a particular message type.

6. (Previously Presented) A method according to claim 5 further comprising:

receiving the new message from the sender having an associated message type;

loading the new message into the slot of the at least one of the buffers which is configured for receiving the particular message type of the new message.

7. (Original) A method according to claim 6 further comprising determining the particular message type of the new message.

8. (Original) A method according to claim 7 further comprising incrementing the count of each of the buffers in which the new message was not loaded.

9. (Original) A method according to claim 8 further comprising, after the loaded new message is freed from the buffer in which it was loaded, incrementing the count of the buffer in which the new message was loaded.

10. (Original) A method according to claim 9 wherein each of the buffers includes a plurality of slots.

11. (Original) A method according to claim 10 further comprising:

initializing the slots of the buffers; and  
prior to loading a first message into the initialized slots of the buffers, setting each of the counts equal to the number of the initialized slots in its corresponding buffer.

12. (Original) A method according to claim 1 wherein the plurality of buffers includes six buffers.

13. (Original) A method according to claim 1 further comprising configuring each of the buffers with a different particular message type.

14. (Currently Amended) A system for communicating to a sender an availability of receiving a new message comprising:

a plurality of buffers each having at least one slot for storing a message; and

a corresponding counter for each of the buffers,

a credit signal generator operable to provide a credit signal to the sender only when all of the plurality of buffers have ~~at least one slot available for storing the new message~~ a non-zero value in their respective counter, each counter operable to decrement its value in response to the credit signal being provided to the sender.

15. (Currently Amended) A system according to claim 14 further ~~comprising~~ comprising:

a monitor that monitors each of the buffers to determine whether at least one slot is available in each buffer for storing the new message.

16. (Currently Amended) A system according to claim 14 further comprising:

a router operable to identify which of the buffers is to receive the new message, the router operable to insert the new message into the identified buffers, the router operable to initiate incrementing of the counter associated with those buffers that do not receive the new message ~~comprising a corresponding counter for each of the buffers.~~

17. (Currently Amended) A system for communicating to a sender an availability of receiving a new message comprising:  
a plurality of buffers each having at least one slot for storing a message; and  
a credit signal generator operable to provide a credit signal to the sender only when all of the plurality of buffers have at least one slot available for storing the new message;  
a corresponding counter for each of the buffers, A-system  
~~according to claim 16~~ wherein each counter is configured to be decremented when all of the buffers have at least one slot available for storing the new message.

18. (Original) A system according to claim 17 wherein each of the buffers is configured to receive a particular message type.

19. (Original) A system according to claim 18 wherein at least one of the slots of a particular buffer which is configured for receiving the particular message type of the new message is configured to load the new message received from the sender.

20. (Original) A system according to claim 19 further comprising a message type discriminator configured to determine the particular message type of the new message received from the sender.

21. (Original) A system according to claim 20 wherein the counter of each of the buffers in which the new message was not loaded is configured to be incremented.

22. (Original) A system according to claim 21 wherein the counter of the buffer in which the new message was loaded is configured to be incremented after the loaded new message is freed.

23. (Original) A system according to claim 22 wherein each of the buffers includes a plurality of slots.

24. (Previously Presented) A system according to claim 23 wherein the slots of the buffers are initialized, and wherein, prior to loading a first message into the initialized slots of the buffers, each of the counters of the initialized slots are configured to be set equal to the number of the initialized slots in its corresponding buffer.

25. (Original) A system according to claim 14 wherein the plurality of buffers includes six buffers.

26. (Original) A system according to claim 17 wherein at least two of the buffers are configured to receive a different particular message type.